

## LISTING OF CLAIMS

The listing of claims provided below replaces all prior versions, and listings, of claims in the application.

- 5           1.       (Previously Amended)       An electrostatic chuck, comprising:  
  
              a metal base plate;  
  
              a ceramic disc having a predetermined thickness adhesively bonded to said metal  
base plate;  
  
              a planar electrode positioned in the middle of said ceramic disc relative to a  
10 thickness direction of said ceramic disc; and  
  
              a cooling gas channel formed on a top surface of said ceramic disc over said  
electrode and within an outer peripheral edge of said electrode.
2.       (Previously Amended)       An electrostatic chuck according to claim 1,  
15 wherein said planar electrode extends beyond said cooling gas channel.
3.       (Previously Amended)       An electrostatic chuck according to claim 1,  
wherein said cooling gas channel comprises a ring shape along an outer peripheral edge  
of said ceramic disc, said chuck further comprising gas feed orifices located in a plurality  
20 of positions at a bottom portion of said gas cooling channel and gas feed orifices located  
in a plurality of positions on a circumference on a surface of said ceramic disc in the  
center side of the chuck.
4.       (Previously Amended)       An electrostatic chuck according to claim 1,  
25 wherein said planar electrode includes a first electrode and a second electrode,  
  
              said first electrode including,

a disc portion arranged in the center of said ceramic layer, and  
a first extending portion extending from a part of the disc portion toward the outer peripheral edge of said ceramic layer,  
said second electrode including,  
5 a second extending portion arranged opposite to said first extending portion relative to said disc portion of said first electrode, and  
a circular ring portion connected to an outer edge of said second extending portion so as to form the outer peripheral edge of said second electrode.

10 5. (Previously Amended) An electrostatic chuck according to claim 4, wherein said first electrode further includes a plurality of first C-shaped ring portions at predetermined intervals so as to have different diameters, the first C-shaped ring portions extending in C shapes from both sides of said first extending portion around said disc portion.

15 6. (Previously Amended) An electrostatic chuck according to claim 5, wherein said second electrode further includes a plurality of second C-shaped ring portions at predetermined intervals so as to have different diameters, the second C-shaped ring portions extending in C shapes from both sides of said second extending portion and  
20 being engaged with said plurality of first C-shaped ring portions of said first electrode.

7. (Previously Amended) A method for manufacturing an electrostatic chuck, comprising:

preparing a first disc-shaped ceramic material compact having a half of a  
25 thickness of a completed ceramic layer;

forming an electrode on a surface of said first ceramic material compact;

preparing a second disc-shaped ceramic material compact having a half of a thickness of the completed ceramic layer and having a cooling gas channel on its surface in a location overlying said electrode;

5 placing said second ceramic material compact on said first ceramic material compact so as to form a laminate;

firing the entire laminate to form the completed ceramic layer; and

bonding the completed ceramic layer to a metal base plate by means of an adhesive layer.

10 8. (Currently Amended) The method of claim ~~6~~ 7, wherein said adhesive layer is flexible.